# ANCHOR DIAMOND ${ }^{\circledR}$ ANCHORPLEXTM RETAINING WALL CONSTRUCTION GUIDE 



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## ANCHORPLEX ${ }^{\text {TM }}$ SYSTEM MATERIAL SPECIFICATIONS

## tructural Backfill Component

This component is made by mixing cementitious material, coarse aggregate and water. The cementitious material should be hydraulic ement (ASTM C 150 or C 1157), fly ash (ASTM C 618) or slag (ASTM 9899) The stone should be coarse aggregate, size number 6,8 or should be based on the application. Generally, a block with a large core or one with large voids between it and adjacent bloc ks can more easily accept a mix design with larger aggregates. The water should be potable. The mixing ratios (by weight) of aggregate to cementitious material should be between 6:1 and 7:1. The mixing atio (by weight) of water to cementitious material should be no ore than 1:2. The resulting material, upon curing, should have at ast $25 \%$ voids.

## Facing-Block Component

The following Anchor™ retaining wall products can be used to build AnchorplexTM retaining walls:

- Diamond Pro Stone Cut® products
- Diamond $\mathrm{Pro}^{\circ}$ products

Highland Stone ${ }^{\ominus}$ products

- Diamond Stone Cut ${ }^{\text {® }}$ products

Diamond ${ }^{\text {p }}$ products
ANCHORPLEX SYSTEM
MATERIAL QUANTITY ESTIMATING
Estimate the quantity of block needed on an Anchorplex job by onventional methods. Conventional block quantity estimating tools re available at www.anchorwall.com
Estimate the quantity of Anchor-specified structural backfil naterial needed on an Anchorplex job using the Anchorplex wall block system that you are using on the job Each Anchorplex Estimating Chart for Structural Backfill is based upon Anchor's proprietary design methodology and is available for downloading at www.anchorwall.com
The Anchorplex Estimating Charts for Structural Backfill for the Diamond Pro wall system are included in this Construction Guide for illustrative purposes


ANCHORPLEXTM SYSTEM
CONSTRUCTION BASICS

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## 5. DRAINAGE DESIGN

This step is no different for Anchorplex™ system construction than for conventional construction. The ground levels on a site will determine at what level to install the perforated drainpipe, but generally the drainpipe is positioned as low as possible behind the wall so water ains down, out and away from the wall into a storm dra or to an area lower than and away from the wall.
he perforated pipe should be placed approximately 6 inches behind the back of the block. The actual location of the drainpipe should be noted on the engineered sho rawings.
6. INSTALLATION OF STRUCTURAL BACKFILL

After completion of the leveling pad, base course, drainpipe installation and stacking block 2 feet above grade, the first t of structural backfill that meets Anchor Wall System nc's specifications can be installed.

The structural backfill can be placed directly from delivery vehicle or with skid-type loader or other equipment. It hould be placed behind the blocks and worked into all voids and cores of the blocks. When properly formulated he structural backfill material will not leak through the face of the wall.

After installation of the first lift of structural backfill, install additional courses and repeat the process. Place additional lifts from 8 to 24 inches depending on site conditions and project scale. Subsequent pours can be made as soon as he structural backfill in the previous lift has set - usually

## CAPPING

Follow standard practice when capning the wall

## 8. FINISHING

Protect the wall with a finish grade at the top and bottom.



## DAYLIGHT DETAILS



Estimating Charts show the use of Diamond Pro ${ }^{\otimes}$ products. Estimating Charts for other Anchor ${ }^{\text {TM }}$ products are located at www.anchorwall.com.


## 3:1 CREST SLOPE

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Detail shown is conceptual only and should not be used for construction without the seal of a local qualified engineer.
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